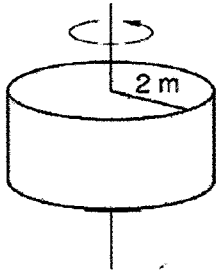
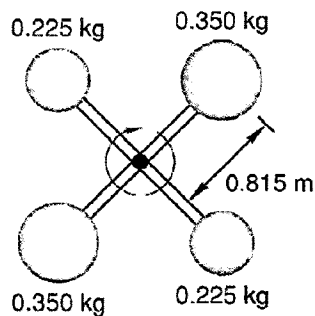
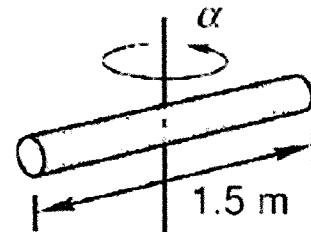


Moment of Inertia



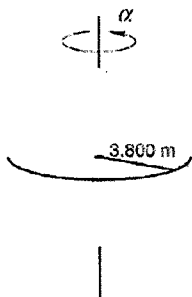
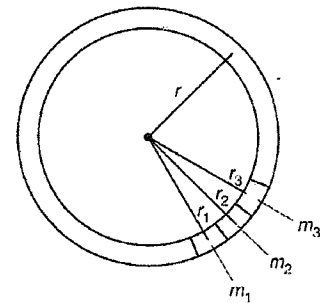
1) A mass of the cylinder is 20-kg and a radius of 2 m. The mass is evenly distributed throughout the cylinder. Find its moment of inertia.

2) A long thin rod has a length of 1.5 m and a mass of 18-kg. The mass is distributed homogeneously. Find its moment of inertia.



3) Four masses are attached by very light rods of the same length to a pivot point so that the system can rotate in the plane of the paper. Find its moment of inertia.

4) A very thin homogeneous hoop has a radius of 2.5 m and a mass of 3-kg. Find its moment of inertia.



5) A 12-kg solid sphere has a radius of 3.8 m and its mass is distributed homogeneously. Find its moment of inertia.